

**Abstract**

An auxiliary lubrication system for an aircraft turbine  
5 engine includes a reservoir **32** of lubricant **50** and a venturi  
**42** to suction lubricant out of the reservoir and direct an  
lubricant mist at a bearing **24** or other component requiring  
lubrication. The venturi is directly connected to a source  
of motive fluid, such as pressurized air extracted from an  
10 engine flowpath **10**, and is continuously driven by the motive  
fluid. The auxiliary system accommodates a failure or  
malfunction of the primary, high pressure lubrication  
system. The auxiliary system operates during normal  
conditions, when the primary system is fully functional. If  
15 the primary system fails, the auxiliary system continues to  
operate for a limited time, until the lubricant in the  
reservoir is depleted, to provide an lubricant mist to the  
component being lubricated. The limited-duration lubricant  
supply allows the aircraft crew time to carry out actions  
20 required to safeguard the aircraft and its occupants.